

Definition of Nodes

This section covers the following topics:

- Accessing the Operating System Server Table
- Adding a Node Definition
- UNIX and Windows Node Definitions
- Modifying a Node Definition
- Deleting a Node Definition
- Special Definitions for a Node (Mainframe)
- Special Definitions for a Node (UNIX and Windows)
- Broker Service Definition (UNIX and Windows)

Accessing the Operating System Server Table

- Line Commands: Operating System Server Table
- Column Headings: Operating System Server Table

If you are using Entire Operations in a multi-CPU environment, you must define node numbers for machines. Networks and jobs can thus be defined to run under Entire Operations control on different nodes.

To define nodes to Entire Operations

- Select the option **Definition of Nodes** from the System Services Menu.

The Operating System Server Table appears with a list of nodes which have already been defined:

03.01.02		*** Entire Operations 4.1.1 ***					13:19:38	
Owner REQUEST		Operating System Server Table						

			Wait after		VSE			
Cmd	Server Name	Node	Op.Sys.	Error	SSU	SysId	Time Diff.	Valid
-	on F-MC	134	MVS/ESA	5				yes
-	RZ SAG	145	MVS/ESA	5				no
-	EOR Dev F-MC	146	MVS/ESA	5	M			yes
-	F-MC	148	MVS/ESA	5				yes
-	DUEVSE	193	DOS/ESA	5				yes
-	BS2000 DAE	194	BS2000	5				yes
-	Sagna SHost	206	MVS/ESA	5				yes
-	G-Machine	248	MVS/ESA	5				yes
-	DEMOCO	249	MVS/ESA	5				yes
-	npr_nt_pcwkk	401	WIN/NT	5				yes
-	npr_nt_pcgfr	402	WIN/NT	5				yes
-	npr_nt_pcsn	403	WIN/NT	5				yes

B Broker D Delete M Modify S Specials								
Command => _____								
Enter-PF1---	PF2---	PF3---	PF4---	PF5---	PF6---	PF7---	PF8---	PF9---
PF10---	PF11---	PF12---						
Help	Add	End	Save	Up	Down	Menu		

If no nodes are defined, the list is empty.

Note:

Node numbers from 1 to 255 represent mainframe (OS/390, VSE/ESA or BS2000/OSD) nodes. All other node numbers represent UNIX or Windows nodes.

Line Commands: Operating System Server Table

Cmd	Description
B	Broker Service Definition (UNIX and Windows nodes only). Opens a window.
D	Delete node definition.
M	Modify node definition.
S	Specials (UNIX and Windows nodes only). Opens a window.

Column Headings: Operating System Server Table

Meaning of the column headings:

Column	Meaning				
Server Name	User-defined node name.				
Node	Entire System Server or UNIX node number.				
Op.Sys.	Operating system under which the node is running as received from the last SYSTEM-INFO call to Entire System Server or UNIX/Windows system information.				
Wait a.E.	Wait after error. Time in minutes to wait until next node access after a temporary error.				
VSE/ESA Sysid	The SYSID defined for a VSE/ESA node is added to the job card of jobs submitted on this node.	SSU	Submit Security User Type. If empty, the system-wide default is in effect for this node.		
Time Diff.	Time difference between local time and GMT in hours if node is in a different time zone.				
Valid	Possible values:				
	yes	Node can be used.			
	no	Node has been disabled.			

You can maintain node definitions using the available line commands and PF keys.

The following subsections describe the functions you can perform.

Adding a Node Definition

- Field Descriptions: Node Definition



To add a node definition

- Press PF2 (Add) from the Operating System Server Table.

A window opens in which you can enter the node definition:

03.01.02		*** Entire Operations 4.1.1 ***					13:19:38		
Owner REQUEST		Operating System Server Table							

Cmd	Server Name	Node	Op.Sys.	Wait after Error	SSU	VSE SysId	Time Diff.	Valid	
_	on F-MC	134	MVS/ESA	5				yes	
_	RZ SAG	+-----+						no	
m	EOR De !						!	yes	
_	F-MC !	Node Modification					!	yes	
_	DUEVSE !						!	yes	
_	BS2000 !	Node Number ==> 146		MVS/ESA			!	yes	
_	Sagna !	Node Name ==> EOR Dev F-MC_____					!	yes	
_	G-Mach !	Time Difference ==> _____					!	yes	
_	DEMOCO !	VSE SysId ==> _					!	yes	
_	npr_nt !	Wait after Error ==> 5__ min.					!	yes	
_	npr_nt !	Submit Security User Type ==> M					!	yes	
_	npr_nt !	Valid ==> Y					!	yes	
----- ! -----									
D	Delete !						!		
	! PF1 Help PF3 End						!		
Command => +-----+									
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---									
	Help	Add	End	Save	Up	Down		Menu	

Field Descriptions: Node Definition

Meaning of the input fields:

Field	Meaning	
Node Number	Numbers 1 to 255 : Entire System Server (mainframe) node number. Numbers 256 and above: Identifier for UNIX/Windows node (server).	
Node Name	Unique, user-defined node name. For node numbers 1 to 255 : enter a short description to help the user select an appropriate node for network or job run. For numbers 256 and above: enter the name of a UNIX or Windows node (server) as it appears in the SAT and Entire Broker definitions. This field is case-sensitive.	
Time Difference	Difference between local time and GMT in hours if node is in a different time zone. Input format: <i>xn</i> , where:	
	<i>x</i>	is a plus or minus sign (+ or -) and
	<i>n</i>	is any number from 0 to 12 .
VSE/ESA Sysid	This ID is added to the job cards of jobs submitted on this node. Range: 1 to 9 .	
Wait after Error	Time in minutes to wait until next node access after a temporary error. Default: 5 minutes.	
Submit Security User Type	The submit security user type can be set individually for each node. If this field is left blank, the global default will apply to this node. Please refer to the Monitor Defaults for the possible values of this field.	
Valid	You can disable the use of a node. Possible values:	
	Y	Allow use of node.
	N	Disable use of node.

- Press Enter to save the node definition.
- Press PF3 (End) to return to the list of nodes.

The new node should now appear in the list.

UNIX and Windows Node Definitions

UNIX and Windows nodes (i.e. NPR servers) must be defined in the following locations as well:

- SYSSATU / SATSRV (see the subsection SAT in Client/Server Environments in the SAT Installation Documentation.)
- Entire Broker parameters. You can omit these definitions for the Monitor node, if this node is accessed in local mode (see explanation of field Type).
- Entire System Server/UNIX or Windows initialization file **npr.ini** (see Step 4: Customize the NPR Server).

Modifying a Node Definition

To modify a node definition

1. Enter **M** in the line command input field of the selected node in the Operating System Server Table and press Enter.

The Node Definition window opens with the current definition.

2. You can modify the definition by overtyping the current values.
3. Press Enter to save the modifications.
4. Press PF3 (End) to close the window and return to the Operating System Server Table.

Deleting a Node Definition

▶ To delete a node definition

1. Enter **D** in the line command field of the selected node in the Operating System Server Table and press Enter.

A window opens in which you can confirm deletion by entering the node number.

2. Enter the node number and press Enter to perform the deletion and close the window.

Special Definitions for a Node (Mainframe)

▶ To add a special definition for a mainframe node

- Enter **S** (Specials) in the line command field of the selected mainframe node in the Operating System Server Table and press Enter.

The following window opens:

18.09.02		*** Entire Operations 4.1.1 ***				16:51:47		
Owner REQUEST		Operating System Server Table						

Cmd	Server Name	Node	Op.Sys.	Error	SSU	VSE SysId	Time Diff. Valid	
—	WOS / FHI	113	MVS/ESA	5			yes	
—	NCL Dev	114	MVS/ESA	1			yes	
+-----+								
!							!	
!	Node: Special Definitions						!	
!							!	
!	Number ==>	148	MVS/ESA				!	
!	Name ==>	F-MC						!
!							!	
!	Mail Destination ==>	DAEF_____					!	
!	Mail Sysout Class ==>	B					!	
!	Mail Sender ==>	nop-monitor@your-company-com_____					!	
- !							- !	
!							!	
!	PF1 Help	PF3 End	PF5 Save				!	
+-----+								
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---								
Help Add End Save Up Down Menu								

Meaning of the input fields:

Field	Meaning
Mail Destination	(OS/390 only, ESY versions less than 3.2.0 only) The destination to be used for e-mail messages, which are sent from OS/390 via SMTP.
Mail Sysout Class	(OS/390 only, ESY versions less than 3.2.0 only). The sysout class to be used for e-mail messages, which are sent from OS/390 via SMTP.
Mail Sender	Default sender name for e-mails which are sent via this node. The ampersand can be coded as (a).

Special Definitions for a Node (UNIX and Windows)

To add a special definition for a UNIX or Windows node

- Enter **S** in the line command field of the selected UNIX or Windows node in the Operating System Server Table and press Enter.

The following window opens:

```

18.09.02          *** Entire Operations 4.1.1 ***          16:54:40
Owner REQUEST      Operating System Server Table
-----
Cmd  Server Name      Node  Op.Sys.  Error  SSU  VSE  SysId  Time Diff.  Valid
_   npr_nt_pcgfr      402  WIN/NT   5      -      SysId  Time Diff.  yes
+-----+-----+-----+-----+-----+-----+-----+-----+
!                                     !
!               Node: Special Definitions               !
!                                     !
!           Number ==> 409           WIN/NT             !
!           Name ==> npr_nt_pcsn2             !
!                                     !
!   Default Userid ==> sn_____             !
!   Default  Group ==> eur_____             !
!   Print Command ==> type :f:>lpt3_____             !
!   Message Command ==> blat ":f:" -s ":u:" -i ":s:" -t ":r:"_____             !
- !   Mail Sender ==> nop-monitor@your-company-com             ! -
!                                     !
!   PF1 Help   PF3 End   PF5 Save             !
+-----+-----+-----+-----+-----+-----+-----+
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Add   End       Save       Up    Down              Menu

```

Meaning of the input fields:

Field	Meaning
Default Userid	The (UNIX or Windows) user ID will be used by the monitor for actions which do not depend on a specific network or job.
Print Command	The print command (UNIX or Windows) for sysout files on this node. :f: will be replaced by the file name. Example: lp -dxxxx :f:
Message Command	The message send command (Windows only). This command is used to send a user message out of Entire Operations. Replacements: <ul style="list-style-type: none"> • :s: sender name (optional) • :u: subject (title of the message, optional) • :r: recipient • :f: name of the file containing the message Entire Operations automatically makes these replacements. Example: blat ":f:" -s ":u:" -i ":s:" -t ":r:" (parameters must be enclosed in quotes, if they contain blanks)
Mail Sender	Default sender name for e-mails which are sent via this node. The ampersand can be coded as (a).

Broker Service Definition (UNIX and Windows)

This function displays the Broker service definition for the selected node. The definition can be modified in SYSSATU/SATSRV.

To display the Broker Service definition for this node:

- Enter **B** in the line command field of the selected node in the Operating System Server Table and press Enter.

The following window opens:

09.10.02		*** Entire Operations 4.1.1 ***						16:19:28					
Owner SN		Operating System Server Table											

Cmd	Server	Name	Node	Op.Sys.	Wait after Error	SSU	VSE SysId	Time Diff.	Valid				
_	npr_	+	-----						+	yes			
_	npr_	!							!	yes			
_	npr_	!	Node: Broker Service Definition						!	yes			
_	npr_	!							!	yes			
_	npr_	!	Number ==> 519		SunOS				!	yes			
_	npr_	!	Name ==> npr_sunnat1						!	yes			
_	npr_	!							!	yes			
_	npr_	!	Broker ID ==> BKR034						!	yes			
b	npr_	!	Server Class ==> NPR						!	yes			
_	npr_	!	Server Name ==> SUNNAT1						!	yes			
_	npr_	!	Service ==> npr_sunnat1						!	yes			
_	npr_	!	User ID ==> IBM1						!	yes			
-----		!	Wait Time ==> 30S						!	-----			
B Broker		!							!				
		!	PF1 Help	PF3 End	PF5 Save	PF6 Refresh			!				

Command +-----													
Enter-	PF1	PF2	PF3	PF4	PF5	PF6	PF7	PF8	PF9	PF10	PF11	PF12	---
Help		Add	End	Save		Up	Down					Menu	

The fields contain the current attributes of the node's Broker service definition.

PF Key	Function
PF6 Refresh	With this function you can force a re-read of the service definition from SYSSATU/SATSRV into Entire Operations.